Highlights

- Full data analysis software included – IVD-D and 21 CFR part 11 compliant

- Plug & play for easy set-up within minutes

- Fast, accurate and reproducible

- Proven reliability

- Compact – saves bench space

- Filters – eight position wheel with four filters included

- Linear shaking with four modes

Microplate Absorbance Reader Labtech LT-4500

A compact **absorbance reader using innovative LED technology**

Complete with compliant PC control and data analysis software

Labtech LT-4500 – a compact absorbance reader using innovative LED technology

The LT-4500 is Labtech's next generation reader providing fast, accurate and reproducible data from an ultra-compact design. The LT-4500 is a high performance visible absorbance reader supplied as standard with 21 CFR part 11 compliant LT-com PC software.

Labtech has used more than 24 years experience with microplate technology to produce an absorbance reader and software package to fit into all laboratory environments. At the heart of the LT-4500 is an innovative LED-based optical system, which provides excellent data quality, ease of use and reliability together with low maintenance requirements. The LT-4500 is controlled by the LT-com software package, which provides flexible qualitative and quantitative analysis capabilities. The package has been designed to allow compliance with key regulatory requirements.

Instrument highlights

- Compact design – 34.7 x 18.9cm footprint saves valuable bench space

- Easy setup – plug and play USB interface allows setup in minutes

- Fast and accurate results – 8 channel (+1 reference) optical system ensures fast read times with accurate and reproducible results

- Proven reliability – tested reliability of >100,000 plates

- Filters – four standard filters with space for up to four optional filters that are user-installable without the need for tools

- Shaking – linear shaking with four modes

- LT-com data analysis software supplied as standard

LED technology

- Long maintenance-free service life

- No warm-up time or waiting

- 50% lower energy consumption than traditional readers

- No cooling fans or vents, therefore no dust is drawn onto optics reducing light transmission
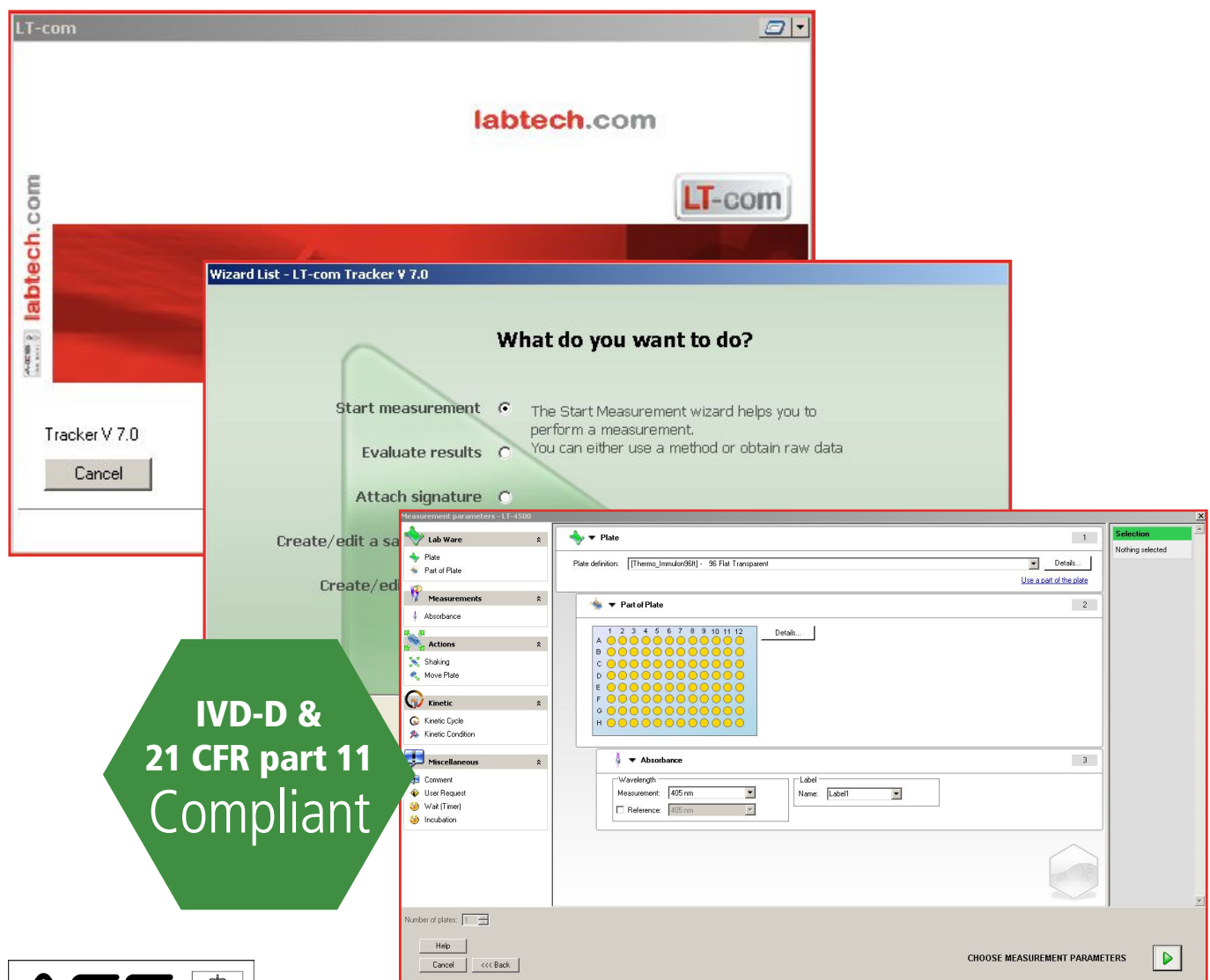
LT-com software

The LT-4500 comes as standard with Labtech's new LT-com PC control and data analysis software. This market leading package offers an intuitive drag-and-drop approach and Wizard-based interface to simplify protocol setup and data analysis:

Key software features

- Designed to meet the 98/79/EC IVD-D directive and the FDA 21 CFR part 11 regulation for data integrity

- Electronic signatures, records and multi-level user account management for use in clinical or regulated environments

- Choice of nine languages (English, Japanese, Chinese, French, German, Italian, Portuguese, Russian and Spanish)

- Full qualitative and quantitative analysis functionality including all major curve fits

- Fully flexible data exporting options including Excel®, ASCII and ASTM

- Comprehensive QC features including plate-to-plate QC

- Comprehensive kinetic data reduction capability

- Supplied on a USB flash drive for easy installation on netbooks, laptops or desktop computers

IVD-D & 21 CFR part 11 Compliant

LT-4500 Specifications

Light source	LED, self-calibrating
Detectors	Silicon photodiodes
Measurement channels	8 + 1 reference
Wavelength range	400-750nm
Wavelength selection	Filter (8 filter positions)
Supplied filters	405, 450, 492 and 620nm
Plate formats	96 well (including strip microplates)
Measurement range	0-4 OD
Resolution	0.0001 OD
Accuracy at 450/492nm	
0.000-2.000 OD	≤ (0.5% + 0.010 OD) typical
2.000-3.000 OD	≤ (1.0% + 0.010 OD) typical
Precision/Reproducibility at 450/492nm	
0.000-2.000 OD	≤ (0.5% + 0.005 OD) typical
2.000-3.000 OD	≤ (1.0% + 0.005 OD) typical
Linearity	
0.000-2.000 OD	≤ 1.0%
2.000-3.000 OD	≤ 1.5%
Computer interface	USB 1.1/2.0
Dimensions (cm)	13.4 (h) x 34.7 (w) x 18.9 (d)
Weight	< 3kg
Power supply	External: 100-240v AC, 50/60Hz (auto-sensing)

Ordering information

Part Code	Description
LT-4500	LT-4500 Absorbance Plate Reader complete with compliant LT-com analysis and control PC software

WolfLabs

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.